PATENT SPECIFICATION

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(54) METHOD AND APPARATUS FOR APPLYING FLOCKING TO A BASE

(71) We, SCHMIDT INDUSTRIES perpendicular relation thereto and adhere INC. a Corporation of the State of North evenly to a portion of said base surface Carolina, United States of America, of 800 pervious portions in said flocking stencil. United States of America, do hereby declare the invention, for which we pray station is contained in a box-like container that a patent may be granted to us, and the method by which it is to be performed, to positive electrical source is electrically be particularly described in and by the container having a metal bottom plate to which a positive electrical source is electrically be particularly described in and by the container having a metal bottom plate to which a positive electrical source is electrically be particularly described in and by the container having a metal bottom plate to which a positive electrical source is electrically and base surface corresponding to the area defined by said pervious portions in said flocking stencil. be particularly described in and by the following statement:---

The invention relates to a method of applying multi-color flock to a base structure in a predetermined pattern.

The invention provides a method of applying flock which includes flock of different colors to a base surface in a predetermined pattern, said method including the steps of applying an adhesive to said base surface through a master stepcil element perforated with said predetermined pattern. Terming a series of performent performed with satu-predetermined pattern, forming a series of individual flocking steneils from a fine-mesh gauze-like sofeening material in-which only selected portions of said steneils are pervious having said gauze-like material disposed within said pervious selected portions, each of said individual flocking portions, each of said individual flocking stencils being formed with said pervious portion thereof representing a different and distinct portion of said predetermined pattern, sequentially advancing said base to which said adhesive has been applied through a series of flocking stations, each flocking station including a supply of flock and including a supply of flocking including a supply of flocking and including a supply of flocking supply of flocking and including a supply of flocking and includin flocking station including a supply of flock, and including a different one of said flocking stencils interposed between and spuced from said supply and said base surface with the positional relationship between each said flocking stencil and said base surface being identical for each flocking operation, the flocking supply for each operation being of a different color, and imposing an electrical potential between the flock supply and the base surface for each flocking operation to cause surface for each flocking operation to cause said flock to pass through said gauze-like material disposed within the pervious portions of said flocking stencil in

connected; said base surface for each station being carried by a metal plate disposed across the top of said container, said metal plate being electrically connected to ground.

Said flocking stencil may be formed from a polyester gauze having a fine mesh.
The invention also provides an apparatus

for applying flock which includes flock of different colors to a base surface in a predetermined pattern, said apparatus precedentified pattern, said apparatus incitiding a master stancil element horizonted with said predetermined pattern through which an adhesive can be applied to said base surface, and a plurality of flocking station including a supply of flock, a flocking stericl of fine gauze-like screening material perforated with a different portion of said predetermined pattern and means for supporting said base surface above said supply of flocking with said flocking stencil interposed between said flocking supply and said base surface, said supporting means for fixing the location of said base surface and said flocking stencil to have a positional relationship which is precisely identical at each said flocking operation, and means for historical and said flocking and said said flocking stencil to have a positional relationship which is precisely identical at each said flocking operation, and means for imposing an electrical potential between the flocking supply and the base surface at each flocking operation to cause said flock to pass through the perforations in said flocking steneil in perpendicular relation thereto and adhere to a portion of said base surface corresponding to the perforations in said flocking stenell.

Said supporting means for each flocking operation may include a supporting surface for supporting said base surface, in that said

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means for fixing the location of said base surface and said flocking stencil includes fixed guide means on said supporting surface for positioning said base surface thereon, and further includes fixed means for selectively attaching said flocking stencil to said supporting sufface at a fixed position thereon superimposed over said positioned base surface in spaced relation thereto; and in that said supporting surface is a metal plate connected to ground and said flocking supply is contained in a box having metal bottom plate connected to a

having metal bottom plate connected to a positive electrical source.

The following is a description of a specific embodiment of the invention reference being made to the accompanying drawings in which.

Figure 1 is a plan view illustrating a master stencil of a selected flocking design, and a planality of flocking stencils, each flocking stencil being used for a different colored flock. colored flock;

Figure 2 is a perspective view of suitable equipment for practising the flocking method of the present invention; Figure 3 is a detail view illustrating one of

the flocking stations of the equipment illustrated in Figure 2, and

iljustrated in Figure 2; and
Figure 4 is a side elevational view of the flocking station illustrated in Figure 3.

Looking now in greater detail at the accompanying drawings, Figure 2 illustrates equipment for applying flock to a substrate or base in accordance with the present invention. This equipment includes a station to at which an adhesive applying operation is carried out, and four separate stations 12 at which flocking operations are carried out, each of which is identical except for the color of the flock applied thereat and the stencil employed.

The adhesive station includes an upper

! The adhesive station includes an upper work surface 14 to which a side guide plate work surrage 14 to which a side guide plate. 16 is secured and to which a similar top guide plate (not shown) is secured to extend in perpendicular relation to the side guide plate 16 for particularly locating a base member 18 to which flock is to be applied, the base member 18 being positioned flush counts the two guides later. the base member is being positioned flush against the two guide plates. A pair of hinges 20 having upstanding rods 22 are secured to the work surface 14; and a pair of locating plus 24 are permanently secured to the front side of the adhesive station 10. An adhesive applying stencil 26, the details of which will be explained in further details or security is mounted in a frame 28 that of which will be explained in turther detail-presently, is mounted in a frame 28 that includes projecting brackets 30 having apertures for receiving the locating pins 24, and that includes similar brackets (not shown) for receiving the upstanding rods 22. It will be noted that the base member 18 and the adhesive stencil 26 have exact positions on the work surface 14, and the

precise relationship of the stencil 26 to the base member (8 is positively maintained by resilient bands 32 which are secured to the front wall of adhesive station 10 and arranged to slide over the brackets 30 for holding the frame 28 as adhesive is applied to the stencil 26 with a brush 34 or similar

implement,

Since the four flocking stations 12 are Identical except for the color of the flocking applied, a description of the first flocking operation 12 will serve to provide an understanding of the remaining flocking shitions. The flocking station 12 includes a work-surface 36 on which lies a mounting box 38 having a holding surface 40 which is preferably a 1/8-inch aluminium plate formed with a plurality of apertures 42 opening into the interior of the mounting box 38 wherein a vacuum is established by a hose 44 lending from the interior of the mounting box to any convenient vacuum source (not shown). The holding surface 40 is provided with a top guide plate 46 and a side guide plate 48, and with locating pins 50, upstanding rods 52, and resilient bands 303 upgranting rous 52, and resilient bands 54, all corresponding to like elements as proviously described in connection with the adhesive station 10. The mounting box 38 is also provided with a lifting hundle 56 and a spacing block 58 rigidly secured thereto, and the entire mounting box 38 is connected by hinges 60 to a dividing element 62 lying between the mounting box 38 and an open box-like container 64 in which a supply of flocking 66 is held. The container 64 is formed by a galvanized metal bottom plate 68 and clear sides 70 formed of an acrylic plastics extending above and beneath the bottom plate 68. To establish the electrical potential for causing the flock 66 to be applied to the base member 18 in a manner to be described presently, the galvanized metal bottom plate 68 is connected by an electrical wire 72 to a conventional high voltage direct-current transformer 74 (i.e., 100 Kv) so that a positive potential is imposed on the bottom plate 68, and the aluminium plate forming the holding surface 40 is connected by wires 82 to any convenient ground whereby this aluminium plate is electrically negative. The transformer 74 may be used for all of the flocking stations 12 which are wired in series, and a single control switch 74' is provided for energizing the transformer 74. If desired, a separate control switch could be provided for each

In Figure 1 there is illustrated a typical series of steneils used in connection with the method of the present invention, these stenells displaying a relative intricate design in the form of a gamecock which is to be flocked onto the base member 18. At the

flocking station 12.

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of separation between the grounded of separation between the grounded stencils being formed with said pervious holding surface 40 and the bottom 68 of the pottion thereof representing a different and flock container 64 and in the disclosed distinct portion of said predetermined embodiment of the present invention this patient, sequentially advancing said base to which said adhesive has been applied thus, the transformer 74 establishes a through a series of flocking stations, each proper electrical potential which causes the flocking station including a supply of flock individual flock filaments 66 to "shoot" or and including a different one of said pass through the perforations in the flocking stencils interposed between and flocking stencil 76 in perpendicular relation spaced from said supply and said base thereto so that only the leadingend of each surface with the positional relationship such flock filament 66 will engage the between each said flocking stencil and said adhesive pattern on the base member 18 in flocking operation, the flocking supply for each and will adhere to the base member 18 in flocking operation, the flocking supply for each operation being of a different color, therefor it will be noted that this shooting and imposing an electrical potential of the flocking filaments 66 perpendicularly between the flock supply and the hase of the flocking filaments 66 perpendicularly through perforations in the flocking stench through perforations in the nocking stencing to that are carefully defined and positioned with respect to the base element 18 will result in the flock filaments 66 forming a pattern on the base element 18 which corresponds identically to the perforated pattern of the flocking stencil 76.

As soon as the black flock 66 has been relied to the base filements 18 at the first

applied to the base member 18 at the first flocking station 12 in the above-described manner, the base member 18 is immediately manner, the base member 18 is immediately removed and the same, procedure is followed in applying yellow flock 66 to the base member 18 at the second flocking station 12 using the next flocking station 12 using the hird flocking station. 12 using the third flocking station. 13 using the third flocking station. 14 using the third flocking station. 15 using the third flocking station. 16 in India flock at the flocking station is for a final flocked design which uppears on the base member 18 includes sharp and distinct lines between the different colors of flock because the the different colors of flock because the positional relationship between the base member 18 and the flocking stencils 76, 76 and 76" is identical at each flocking operation and because the individual flocking filaments are shot perpendicularly through the stence perforations to provide a sharply defined pattern on the base member 18.

WHAT WE CLAIM IS:-

I. A method of applying flock which includes flock of different colors to a base surface on a predetermined pattern, said method including the steps of applying an adhesive to said base surface through a master stencil element perforated with said predetermined pattern, forming a series of individual flocking stencils from a fine mesh gauze-like screening material in which only selected portions of suid stencils are pervious having said guuze-like material disposed within said pervious selected portions, each of said individual flocking

stencils being formed with said pervious each operation being of a different color, und imposing an electrical potential between the flock supply and the base sufface for each flocking operation to cause said flock to pass through said gauze-like material disposed within the pervious portions of said flocking stencil in perpendicular relation thereto and adhere evenly to a portion of said base surface corresponding to the area defined by said pervious portions in said flocking stencil.

2. A niethod of applying flocking as defined in Claim I and further characterized in that said flock supply for each station is contained in a box-like container having a metal bottom plate to which a positive electrical source is electrically connected, said base surface for each station being carried by a metal plate disposed across the top of said container, said metal plate being electrically connected to ground.

3. A method of applying flocking as defined in Claim I and further charac-terized in that said flocking stencil is formed of a polyester filament gauze having a line mesh.

4 Apparatus for applying flock which includes flock of different colors to a base surface in a predetermined pattern, said apparatus including a master stencil element, perforated with said predetermined pattern through which an adhesive can be applied to said base surface, and a plurality of flocking stations. each flocking station including a supply of flock, a flocking stencil of fine mesh gauzelike screening material perforated with a different portion of said predetermined pattern and means for supporting said base surface above said supply of flocking with said flocking stencil interposed between said flocking supply and said base surface, said supporting means including means for fixing the location of said base surface and said flocking stencil to have a positional relationship which is precisely identical at 125 each sald flocking operation, and means for imposing an electrical potential between the flocking supply and the base surface at

each Nig to passio Hockini thereto surface 70 in said § 5. A base suff furthe [6] supports operation supports 75 means 🖁 surfacel fixed g

surface thereon for sel饕 stencil position

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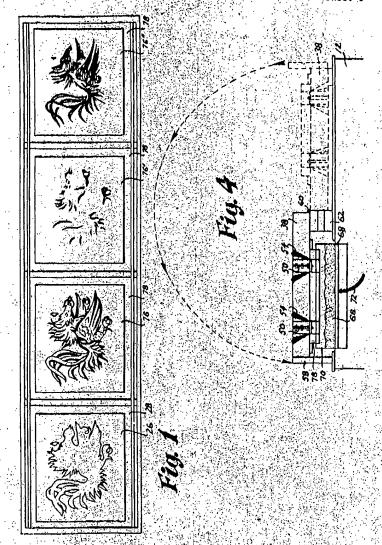
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	-			each flocking operation to cause said flock positioned base surface in spaced relation
	5			to pass through the perforations in said thereto, and in that said supporting surface
ınd	٠,			flocking stencil in perpendicular relation is a metal plate connected to ground and
ied				thereto and adhere to a portion of said base, said flooking supply is contained in a box
i to			•	surface corresponding to the perforations having metal bottom plate connected to a
ied	10			in said flocking steneil
	70	-		5. Apparatus for applying flocking to a 6. A method of apply flocking as claimed
ock				base surface as defined in Claim 4 and in Claim I and substantially as hereinbefore
aid				further characterized in that said described with reference to and as
and			10	supporting means for each said flocking allustrated in the accompanying drawings.
ase shin	75		10	operation includes a supporting surface for 7. Apparatus for applying flocking
suid	13			supporting said base surfaces in that said substantially as hereinbefore described with
ach				means for fixing the location of said base reference to and as illustrated in the
for				surface and said flocking stencil includes a pecompanying drawings.
lor.			15	fixed guide means on said supporting
	80		• •	surface for positioning said base surface SCHMIDT INDUSTRIES, INC.
208C	,,,			thereon, and further includes fixed means Per Boult, Wade & Tennant,
MSC				for selectively attaching said, flocking 34, Cursitor Street,
like				stencil to said supporting surface at a fixed. London, EC4A IPQ.
ous			20	position thereon superimposed over said Chartered Patent Agents.
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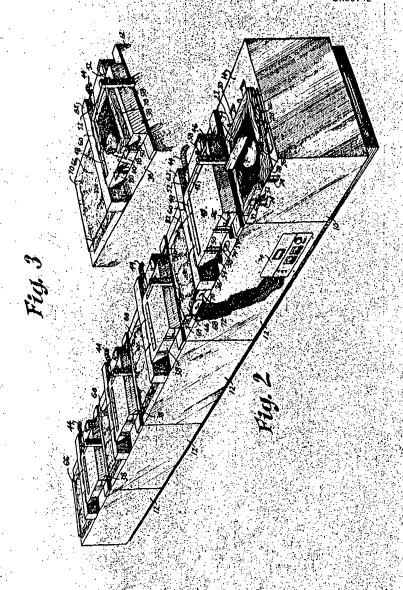
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Sheet 1





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Sheet 2



Patent No. 1466271



Date of Patent 31 December 1973
Date of Scaling 29 June 1977

lizabeth the Second by the Grace of God of the United Kingdom of Great Britain and Northern Ireland and of Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith: To all to whom these presents shall come greeting:

WHEREAS a request for the grant of a patent has been made by

Schmidt Industries Inc. a Corporation organised under the laws of the State of North Carolina, United States of America, of 300 Foster Avenue, Charlotte, North Carolina, United States of America,

for the sole use and advantage of an invention for

Method and apparatus for applying flocking to a base:

AND WHEREAS We, being willing to encourage all inventions which may be for the public good, are graciously pleased to condescend to the request:

KNOW YE, THEREFORE, that We, of our especial grace, certain knowledge, and mere motion do by these presents, for Us, our heirs and successors; give and grant unto the person(s) above named and any successor(s), executor(s), administrator(s) and assign(s) (each and any of whom are hereinafter referred to as the patentee) our especial licence, full power, sole privilege, and authority, that the patentee or any agent or licensee of the patentees and no others, may subject to the conditions and provisions prescribed by any starte or order for the time being in force at all times hereafter during the term of years herein mentioned, make, use, exercise and vend the said invention within our United Kingdom of Great Britain and Northern Ireland, and the Isle of Man, and that the patentee shall have and enjoy the whole profit and advantage from time to time accruing by reason of the said invention during the term of sixteen years from the date hereunder written of these presents? AND to the end that the patentee may have and enjoy the sole use and exercise and the full benefit of the said invention, We do by these presents for Us; our heirs and successors, strictly command all our subjects whatsoever within our United Kingdom of Great Britain and Northern Ireland, and the Isle of Man, that they do not at any time during the continuance of the said term either directly or indirectly make use of or put in practice the said invention, nor in anywise initiate the same, without the written consent, licence or agreement of the patentee, on pain of incurring such penalties us may be justly inflicted on such offenders for their contempt of this our Royal Command, and of being answerable to this patentee according to law for damages thereby occasioned.

PROVIDED ALWAYS that these letters patent shall be revocable on any of the grounds from time to time by law prescribed as grounds for revoking letters patent granted by Us, and the same may be revoked and made void accordingly:

PROVIDED ALSO that nothing herein contained shall prevent the granting of licences in such manner and for such considerations as they may by law be granted: AND lastly, We do by these presents for Us, our heirs and successors, grant unto the patentee that these our letters patent shall be construed in the most beneficial sense for the advantage of the patentee.

IN WITNESS whereof We have caused these our letters to be made patent as of the thirty-first day of December

one thousand nine hundred and seventy-three and to be sealed.

Comptroller-General of Potents Designs, and Trads Marks.

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You are reminded that this patent is granted for a term beginning on the date of the filing on the complete specification (that is the date of the patent given overleaf) and ending at the expiration of to years from that date, subject to the payment by you or by someone on your behalf, before the expiration of the 4th and each succeeding year during the term of the patent, of the prescribed less. All or any of these annual payments may be made in advance and a Patents Form 24 should accompany the appropriate less.

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No reduction of extension fees is made in the case of a patent endorsed. Licences of Right. When paying a renewal or extension fee you are advised to check the current scale of charges as these may change from time to time.

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BOULT, WADE & TENNANT

CHARTERED PATENT AGENTS

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WORKING OF PATENTS

Laws require patented invention to be "worked"

One of the objects of the grant of patents is to encourage industry and trade in the country in which the patent is granted. Consequently the laws of most countries require a patentee to "work" the patented invention.

A limited period (three years from grant of the patent in many cases) is allowed for "working" to be started.

Nature of "working

In countries where manufacturing industry is established, or is being encouraged, the law usually requires actual manufacture of the patented invention to be carried on there. In some less industrialised countries, importation of surfices embodying the invention may be sufficient to meet the requirements as to "working".

Penalties for non-Working

The laws of the various countries usually provide that if the patentee does not "work" the patented invention in the country, any person who wishes to manufacture or possibly import, articles embodying the invention may apply for and obtain a "compulsory licence" under a patent. That is to say, a licence enforced by the Covernment of the country, possibly against the wishes of the patentee but usually giving the patentee some measure of recompense. The laws of many countries provide for the possibility of a patent being revoked if it is . not worked by the patentee and if the grant of compulsory licences is not

adequate to achieve exploitation of the invention in the particular country.

In some countries, e.g. Argentine, Greece, there is no provision for the grant of "compulsory licences" for non-working, - only for revocation of the patent for non-working at the suit of a third party.

"Nominal working"

In cases where the patentee does not wish to, or is unable to, work the invention in a particular country so called "nominal working" or "formal working" is sometimes carried out, and we can have this done when our clients so wish. "Nominal working" takes the form of advertisements in appropriate journals and letters to various commercial organisations, offering to grant licences under the patent and, usually, also offering the patent for sale.

Purpose of "nominal working"

The intended purpose of "nominal working" is to provide evidence that an attempt has been made by the patentee to have the invention commercially exploited in the particular country concerned and to counteract any suggestion that the patentee has employed his patent to prevent the inhabitants of the particular country from enjoying the benefits of the invention. Such evidence may be of value in the event of an application being made for a compulsory licence under the patent or for revocation of the patent on the ground that the patented invention has not been worked.

A disadvantage of "nominal working" in some cases

If however "nominal working" is sarried out without any real desire or intention on the part of the patentee to grant licences, or to sell the patent, on reasonable terms, then the patentee sattitude is unlikely to be regarded as u reasonable one in the event of application being made to him for a licence or for purchase of the patent. Consequently, in those circumstances the result of the "nominal working" may well be to strengthen, rather than to weaken, the case for the grant of a compulsory licence.

Opinions as to the desirability of "nominal working"

The number of applications which are made for compulsory linences, or for revocation, for non-working is very small and there is no substantial body of decided cases to provide any definite guidance as to the practical consequences of non-working of patents and the relative advantages and disadvantages of "nominal working". Consequently there is much room for individual opinions.

In our view, it is only very rarely that "nominal working" is likely to be

of any value in countries where there is provision for compulsory licences, and in such countries the disadvantage of "nominal working" mentioned above may be a very good reason for not carrying out "nominal working". When a patentee is a very good reason for not carrying out "nominal working". When a patentee is willing to grant licences on reasonable terms this will become known to anyone who seeks a licence from him, and there is no need for a compulsory licence 要相外的 to be sought

(continued overleaf)

In Spain it is essential that a formal declaration of willingness to grant licences be regretered at the Spanish Patent Office before the and of each of the third and subsequent years of the patent, if the patented invention is not being actually manufactured in Spain. "Endorsement" (i.e. registration of actual working or registration of the above-mentioned declaration of willingness to grant licences) is usually attended to at the time when renewal fees are paid in that country.

(In the case of a Spanish Patent of Importation, actual manufacture in Spain must be carried out within three years after grant; it is not sufficient to declare willingness to grant licences)

In Mexico a patent may be cancelled after the end of the 12th year unless either actual industrial exploitation in Mexico, or the "impossibility or material difficulty" of such exploitation, is proved.

(In the case of a Mexican Design patent it may be cancelled after the 7th year unless the above-mentioned conditions are proved).

Countries in which "nominal working" is recommended or usual

In the following countries "nominal working" is recommended or regarded as usual practice:

Argentina Bolavie, Brazil, Bulgaria, Greece, Iraq, Lebanon, Peru, Roumania, Syria, Turkey, Venezuela.

Pakistan!

In Pakistan there is a strong body of opinion in favour of "nominal working".

Some other countries

For the following ocuntries we believe that "nominal working" is of little or no value for its intended purpose and may serve merely to draw attention to a failure to work the invention in the way required by the laws:

United Kingdom of Great Britain & Northern Ireland, Australia, Austria Belgium, Canada, Denmark, Eire, Finland, France, German Federal Republic, Holland, India, Israel, Italy, Japan, New Zealand, Norway, Sweden, Switzerland, Republic of South Africa.

Working of a patented invention is not required by law in the United States of America.

We can obtain advice in individual cases

The above remarks are based partly on experience in this office and partly on information supplied by professional bodies and firms in many countries. The relevant laws differ considerably in detail from country to country and consequently the above generalisations cannot deal fully with all direumetances. We recommend that we should be instructed to seek the advice of our Associates in the appropriate country in individual cuses.

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